

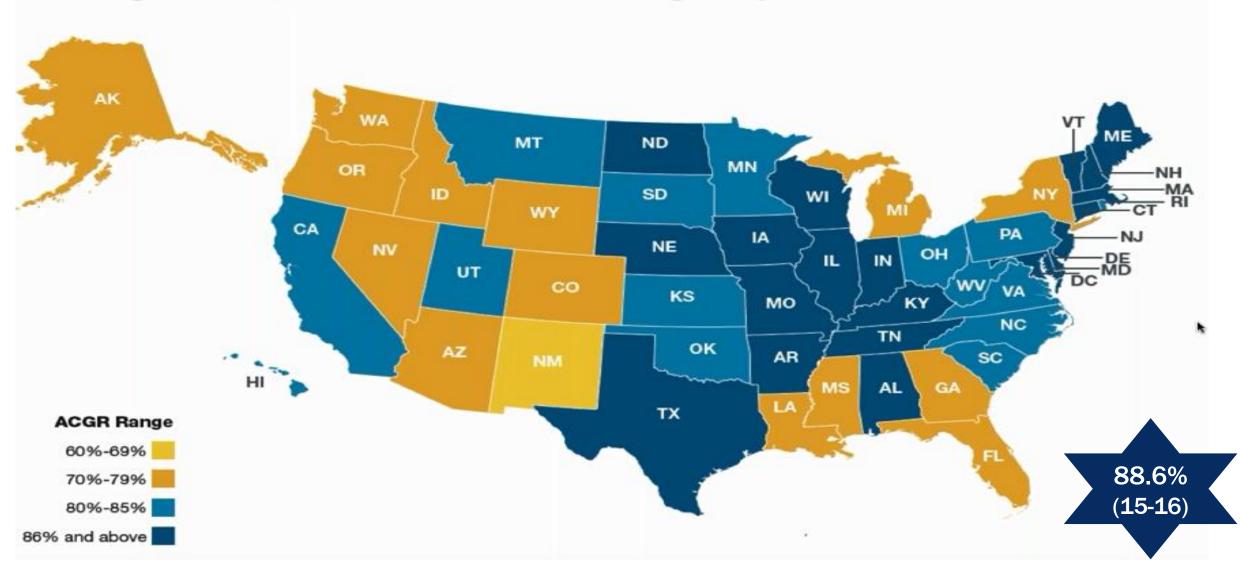


Overview

Context & Purpose Review of Persistence to Graduation Tool Introduce Early Warning Dashboard Tool So which tool should we use? Now What? Using the Tools for Intervention **Questions and Answers**

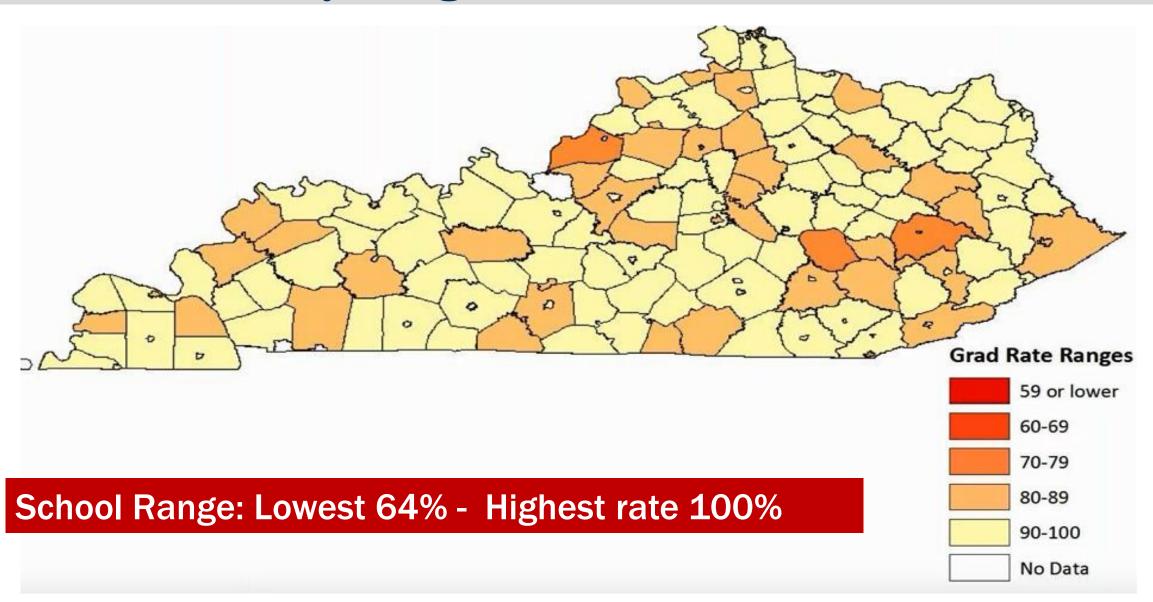
Kentucky is A High Graduation State

High School Graduation Rate ranges by state, 2013-14



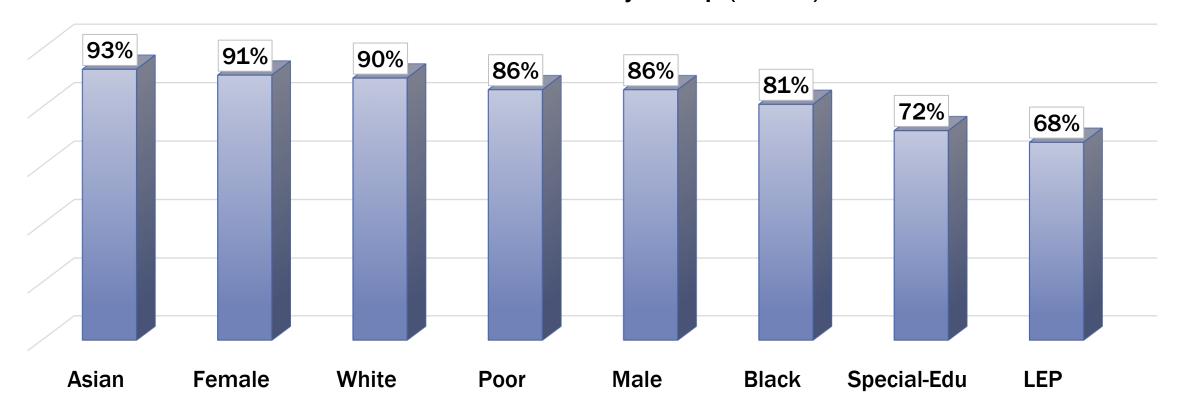
Source: Everyone Graduates Center School of Education John Hopkins University: FOR ALL KIDS

Varies by Region, District and School



...And by Student Group

KY Graduation Rate by Group (15-16)

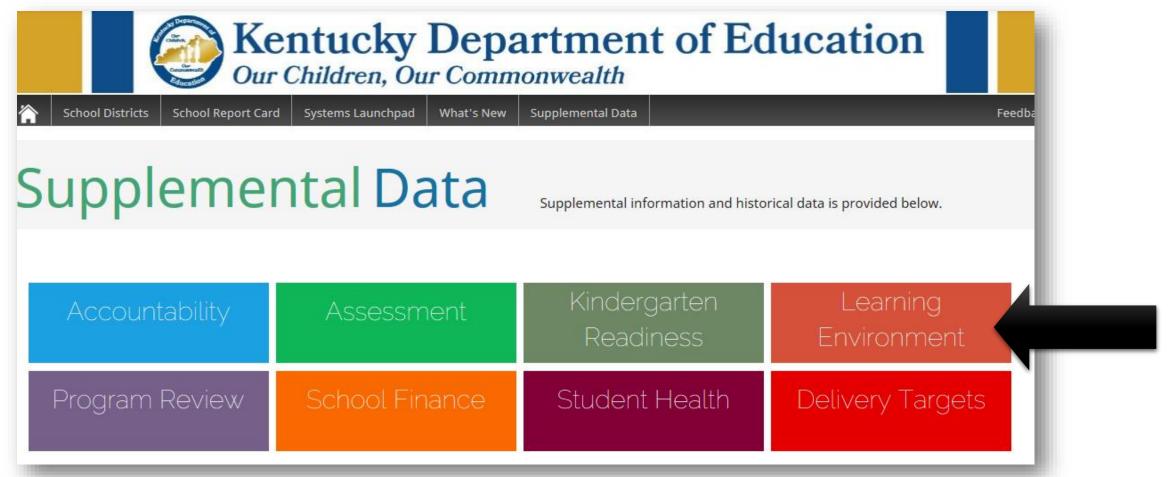


Group Range: Lowest 10% - Highest 100%

Data Source: KDE Supplemental Data Set http://openhouse.education.ky.gov/Data

Where to Find Your Data

http://openhouse.education.ky.gov/Data

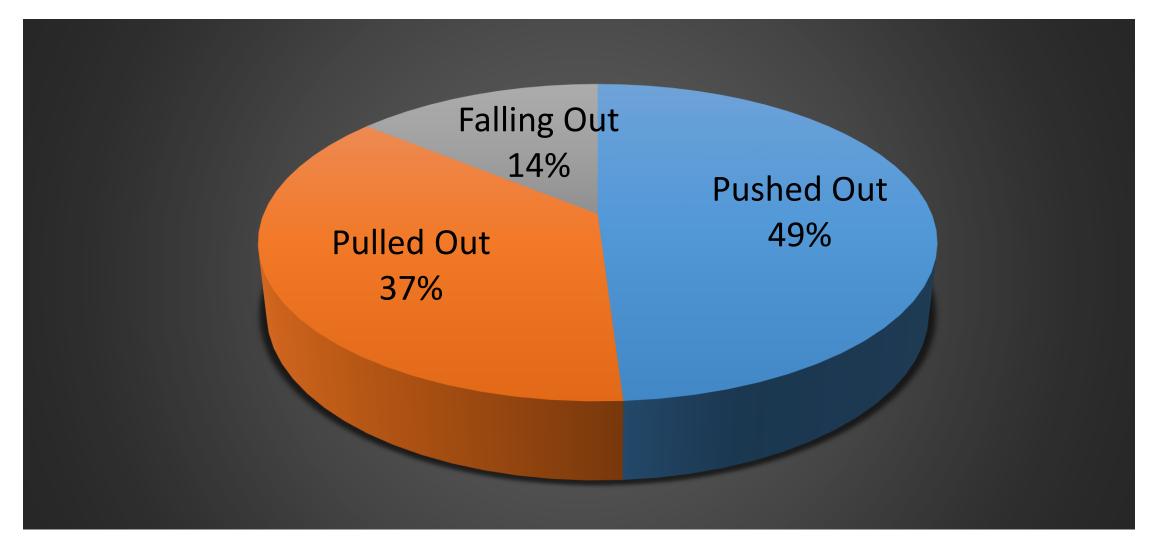


Typology of Students Who Dropout

	Chronically Struggling with Academics		Disrupting School	Quiets	
Balfanz et al. (2009)	Failure to Succeed in School	Fade Outs	Push Outs	Life Events	
Fortin et al. (2006)	School Adjustment Difficulty	Antisocial Covert Behavior	Social Adjustment Difficulty	Uninterested in School/Depressive	
Janosz et al. (2000)	Low Achievers	Disengaged	Maladjusted	Quiets	
Kronick & Hargis (1989)	Low-Achieving	High Achiever Pushouts	Low-Achiever Pushouts	Quiet Dropouts	
Lessard et al. (2008)	Never Being in the Game	Dabbling in the Margins/Turning Away	Sabotaging the Journey	Living Invisibly	
Menzer & Hampel (2009)	Struggler	Lackadaisical	Lackadaisical	Surprised/ Overwhelmed	

Source: Bowers & Sprott (2012) Why tenth graders fail to finish high school

Why Students Drop Out



Doll, Eslami, and Walters (2013) - 7 national represented studies spanning 5 decades: Understanding Why Students Drop Out of High School, According to Their Own Reports.

	School Related	Family Related
Push Out	Failing grades; Cannot keep up	
	Missed too many days	
	Suspended	
	Not getting along with teachers	
Pulled Out		Had to support and care for family member(s)
		Had to get a job (financial/basic needs)
		Was pregnant
Falling Out	Did not like school/ not engaged	
	Did not feel a sense of belonging	
	Changed schools and did not feel welcomed/ supported	

Doll, Eslami, and Walters (2013) - 7 national represented studies spanning 5 decades: Understanding Why Students Drop Out of High School, According to Their Own Reports. http://dropoutprevention.org/resources/statistics/quick-facts/why-students-drop-out/

PBS News hour clip from YouTube

https://www.youtube.com/watch?v=Dr7dvjPy
5dw

Purpose of Data Tools

Help you identify students who may be off-track to be promoted to the next grade level or graduate on time.



No better "data" tool than a consistent, authentic, caring relationship with a student!

Persistence To Graduation (PtG) Tool



Current Usage: 52 Districts
October '16

PtG Risk Score is based on Indicators (Research Based)

Uses LIVE data: Risk Score changes anytime there is a change in any indicator

Demographics

- Over-age
- Limited English Proficient

Attendance

 Classroom time missed

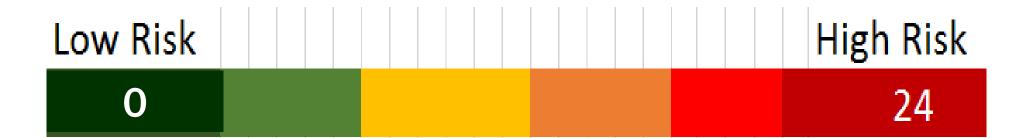
Behavior

- Out of school suspensions
- In-School Removal

Performance

Failing Grades

PtG Risk Score Range (risk of drop out)



Examples...

Demographics

 2 years over age for the grade

Attendance

 > 10 % of Classroom time missed

Behavior

• 1-4 INSR

Performance

• 10-15% Failing

Indicators Used to Calculate Risk Value Scores	Risk Point Value	Current Year	Prior Year			
Demographics						
LEP	1	$\sqrt{}$				
2 years older than expected for grade level	1	$\sqrt{}$				
Attendance						
5-10% C/R time missed	1	$\sqrt{}$	$\sqrt{}$			
>10% C/R time missed	2	$\sqrt{}$	$\sqrt{}$			
Behavior						
1-4 INSR events (In-School Removal)	1	$\sqrt{}$	$\sqrt{}$			
5+ INSR events (In-School Removal)	2	$\sqrt{}$	$\sqrt{}$			
1-4 SSP3 events (Suspensions)	1	$\sqrt{}$				
5+ SSP3 events (Suspensions)	2	$\sqrt{}$				
Performance						
>10-15% Failing Term Grades	1	$\sqrt{}$				
>15-25% Failing Term Grades	2	$\sqrt{}$				
>25-35% Failing Term Grades	3	$\sqrt{}$				
>35-45% Failing Term Grades	4	V				
>45-55% Failing Term Grades	5	$\sqrt{}$				
>55% Failing Term Grades	6	$\sqrt{}$	$\sqrt{}$			

PtG Report Formats



- Risk Value
- Summary of Key Indicators





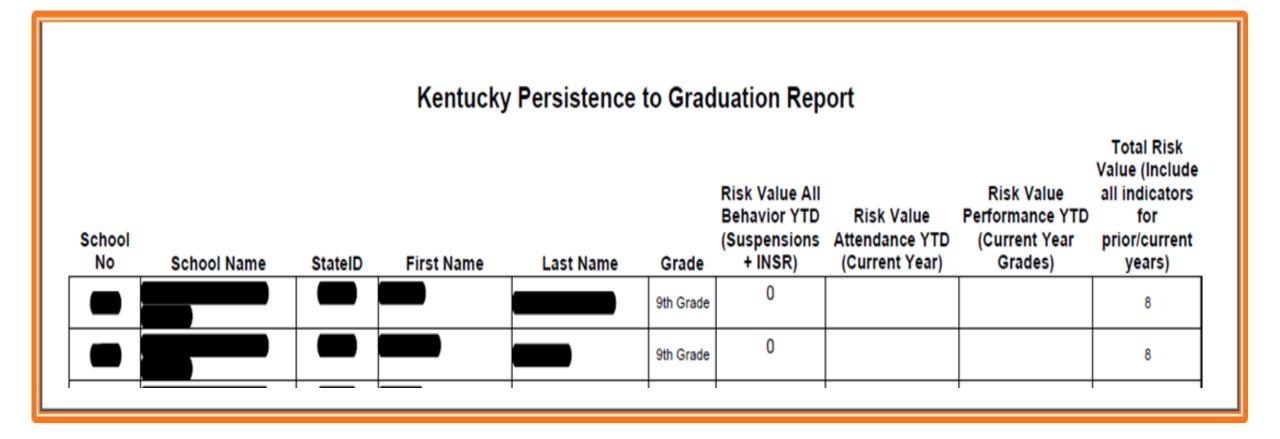


- Indicator details
- Additional data points

Only run reports outside of school hours and be patient, it can take a while to run.

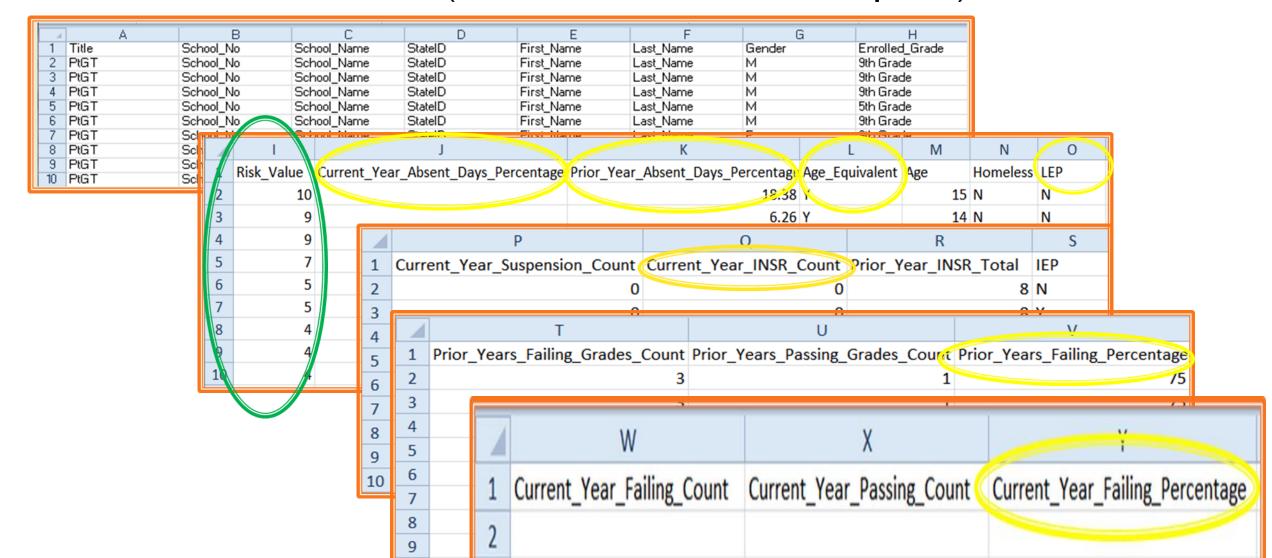
PtG PDF report

Name, grade, risk value overall and for each area (Behavior, attendance, grades)



PtG CSV report

22 Columns for detailed data (indicators and additional data points)



DPP's Reported Usage of PtG Report

- •71% use the PDF version
- •71% run it monthly
- •67% said the tool usually or always accurately identifies students that drop out.

PtG Tool Strengths

Clearly identifies the specific high risk factors for each student

Available for elementary, middle & high

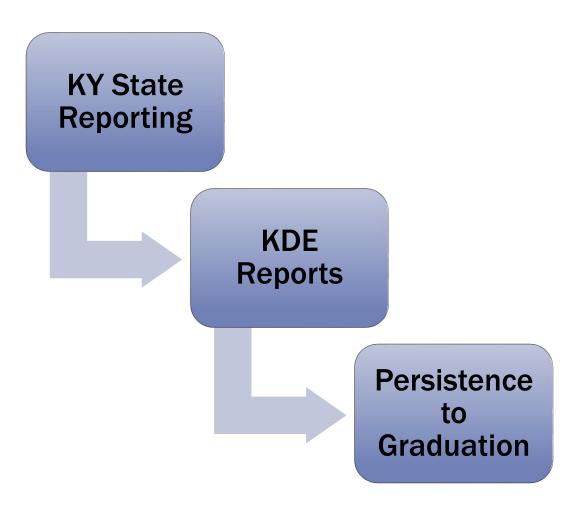
Risk score updates with changes in student indicators

PtG Tool Limitations

- Does not include other available data points that may be contributing to risk
- Running the reports can take considerable time...and the CSV file may be overwhelming to some
- Can't sort within the report inside of Infinite Campus
- Only one person should run the reports and share output in a secure manner with others.

How to Get to the PtG Report

Infinite Campus Path:





Early Warning Tool

Why another tool?

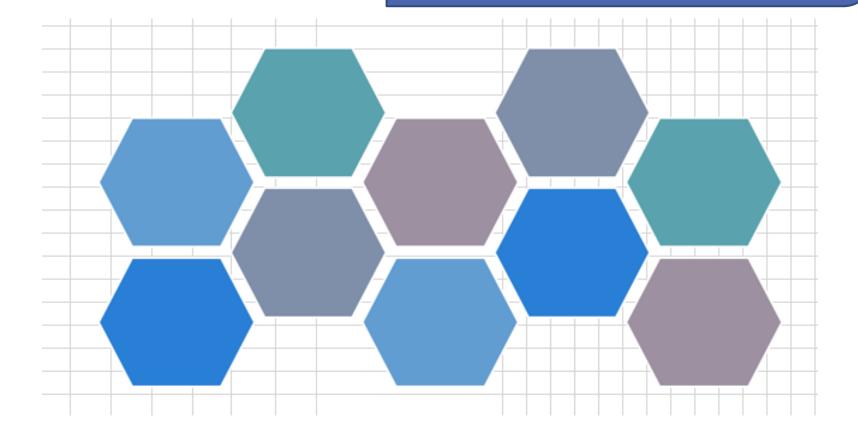
Early Warning Tool Overview

Early Warning: A new data mining tool that uses statistical modeling with multiple years of data to predict a student's likelihood of graduating

GRAD Score is based on Multitude of Indicators

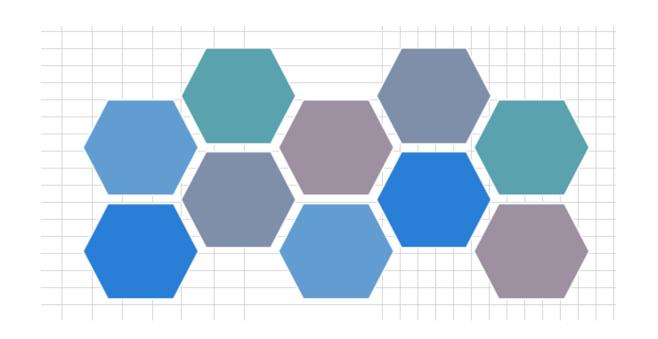
Uses robust statistical modeling to determine likelihood of graduating

Updated monthly based on any changes that occurred as reported in IC



GRAD Score uses over 90 data points:

- Attendance
- Behavior
- Enrollment
- Demographics
- Grades
- Standardized Tests
- Guardian Involvement
- Household Demographics

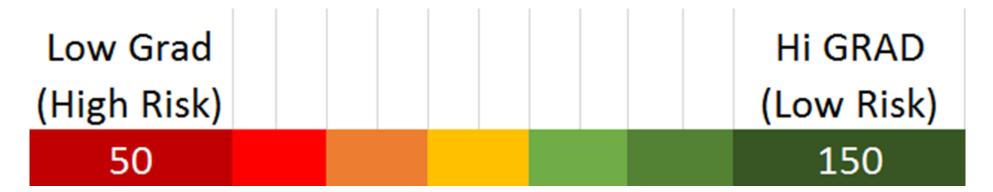


	Examples				
Attendance	Absences, tardies, unexcused, percentile rank				
Behavior	Behavior resolutions, suspension incidences, days				
Enrollment & Demographics	Homeless, migrant, gifted, grade, extra year primary, prior dropout, free/reduced lunch, special education				
Grades	Algebra, english, geometry (core subjects heavier weight), percentile, took the ACT				
Standardized Tests	EXPLORE, ACT composite, math PLAN score				
Guardian Involvement	Number of log in to parent portal				
Household Demographics	Zip code, number in household				
School	School type (alternative, regular, etc.); Title 1				

Power of the Early Warning Tool

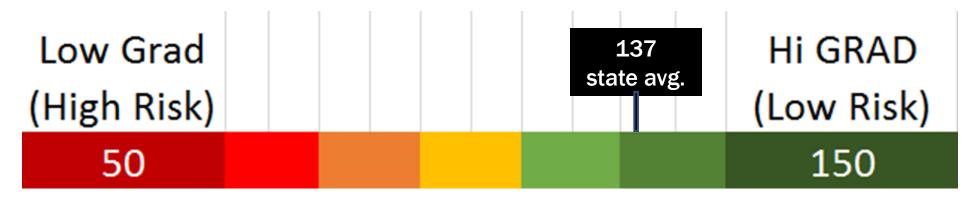
► GRAD Score: (Graduation-Related Analytic Data)

A single number indicates likelihood of graduating



Tailored to each unique environment (district and schools)

Power of the Early Warning Tool

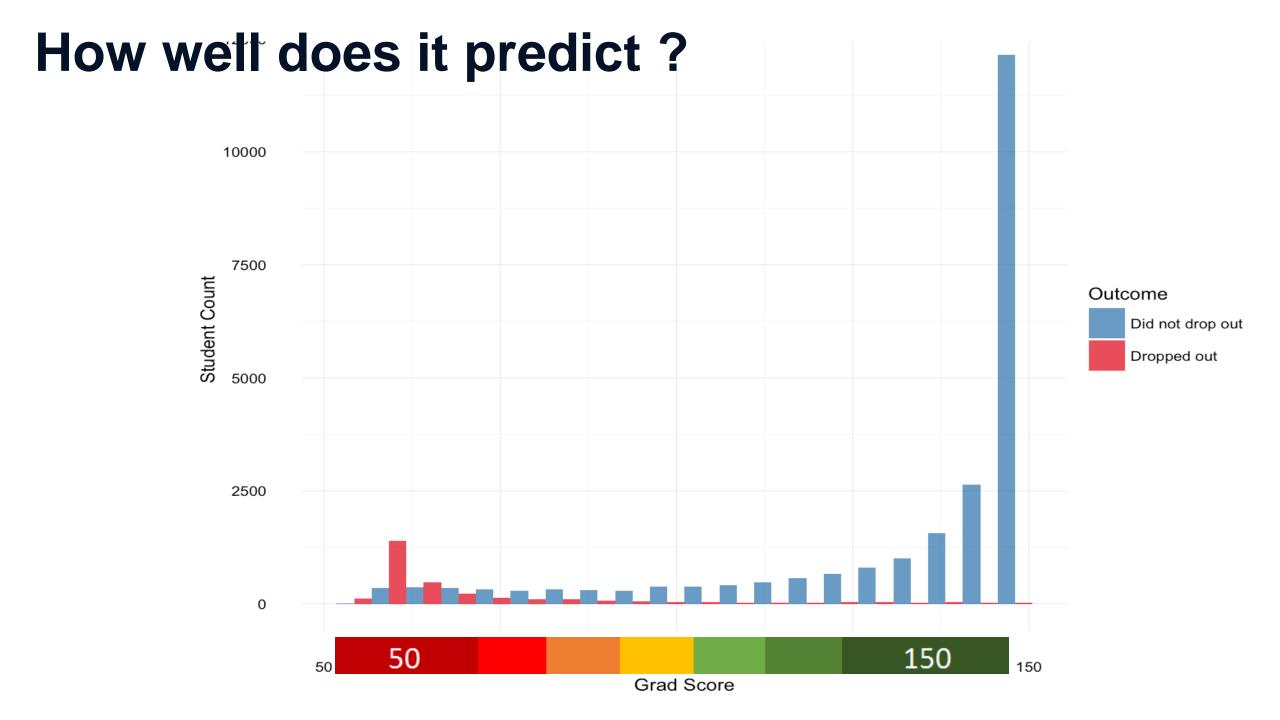




Lower GRAD scores: student has more risk factors shared with past students who dropped out.



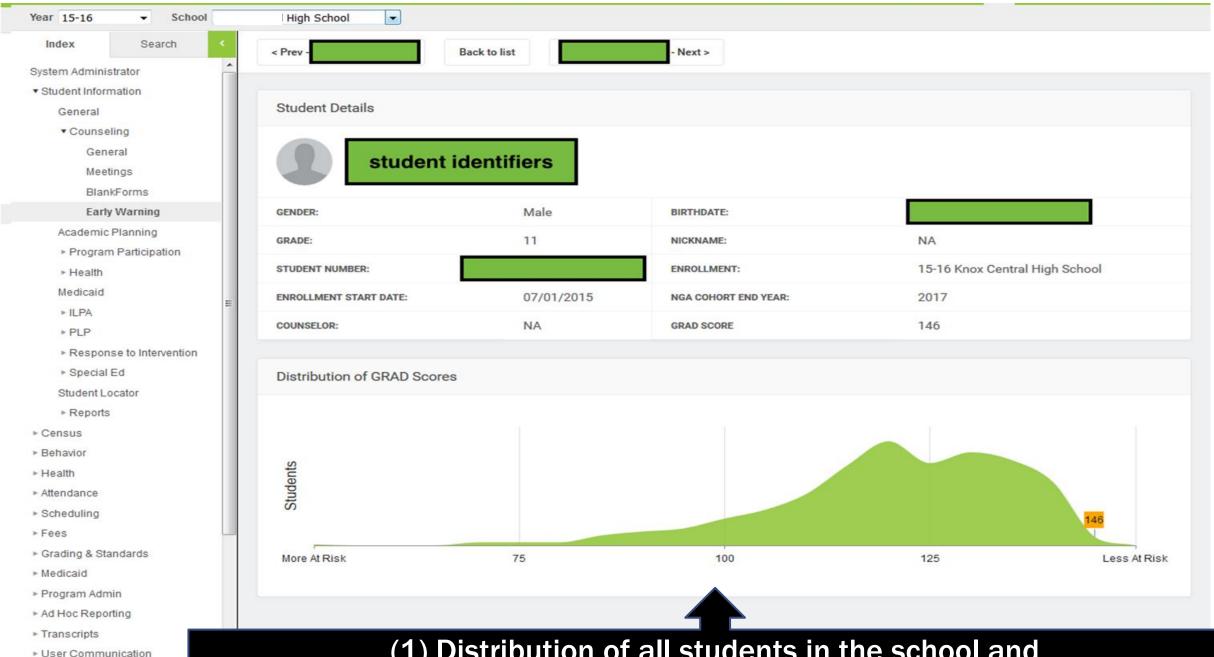
Higher GRAD scores: student shares more factors with past students who have graduated



Filter: Ad Hoc: Select Filter

Grade: 09 10 11 12 Gender: Male Female Show My Watchlist

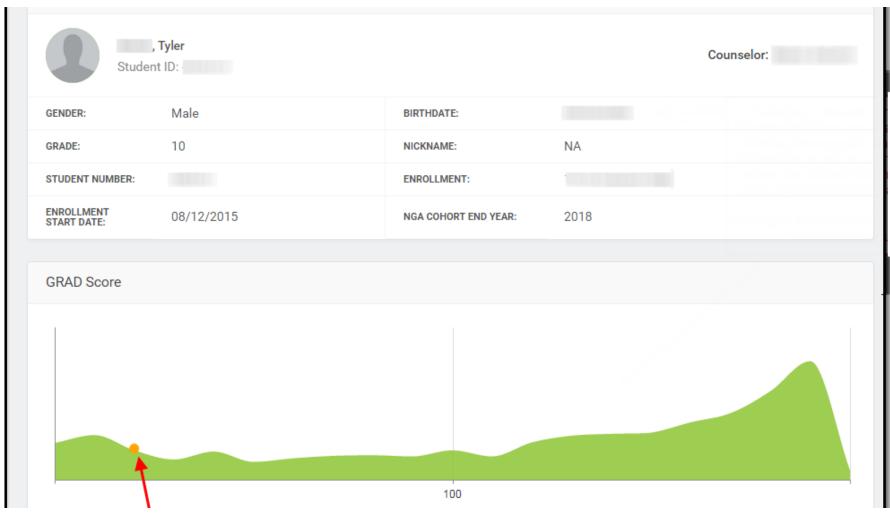
Student Information			Student's + / - Score From Average						
WATCHLIST	FIRST NAME	LAST NAME ^	GENDER	GRADE	GRAD SCORE	SCH00L 115	DISTRICT 132	STATE 121	
			М	09	113	-2	- 19	-8	^
\checkmark			М	09	57	- 58	- 75	- 64	
			М	11	96	- 19	- 36	- 25	
\checkmark		student names		09	52	- 63	- 80	- 69	
				09	104	-11	- 28	- 17	
\checkmark	stu			09	52	- 63	- 80	- 69	
\checkmark				11	92	- 23	- 40	- 29	
				09	111	- 4	- 21	- 10	
\checkmark			М	09	87	- 28	- 45	- 34	
\checkmark			М	09	53	- 62	- 79	- 68	
				09	133	+ 18	+1	+ 12	



(1) Distribution of all students in the school and(2) where the student is compared to their peers in the school

- This student has a GRAD score of 63.
- His score in comparison to peers is indicated by the orange dot.

A GRAD score so far left on the graph indicates that he is at high risk of dropping out



Early Warning Cautions!



- GRAD score may show as not available when:
 - Student could be new to the school/district (records transfer)
 - Student may not have enough information available in the system to make a determination (1 full year required)

Do not dismiss students with no score (or 0 in PtG) Include them in your list and look into each one.

Accurate, timely data entry in IC is important!

Early Warning Tool Strengths

- Incorporates multitude of data points using sophisticated statistical modeling more sensitive and granular than the PtG tool.
- Visual dashboard allows you to view the entire school and where each individual student score is
- Can filter in IC, use adhoc groups in IC and create a watch list of students
- ▶ Takes into consideration school and district context
- Can be run anytime and by multiple users

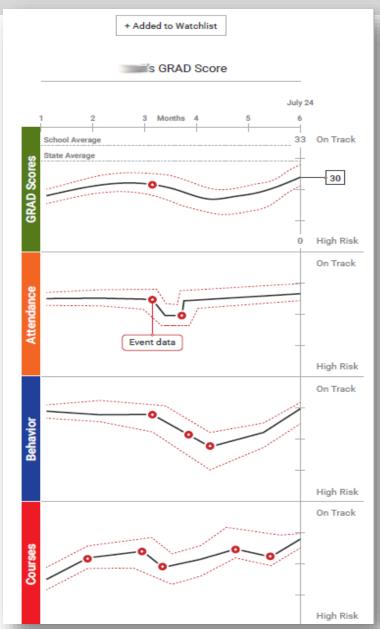
Early Warning Tool Limitations

- Only available for high school
- Currently, students must have at least one year of prior data to have a score (transient students have high risk)
- Currently, the tool does not give specific factors (data points) that are contributing to GRAD Score
- Currently, no print function ... but GRAD score is in adhoc so you can pull score into that report

Early Warning Developments to Come

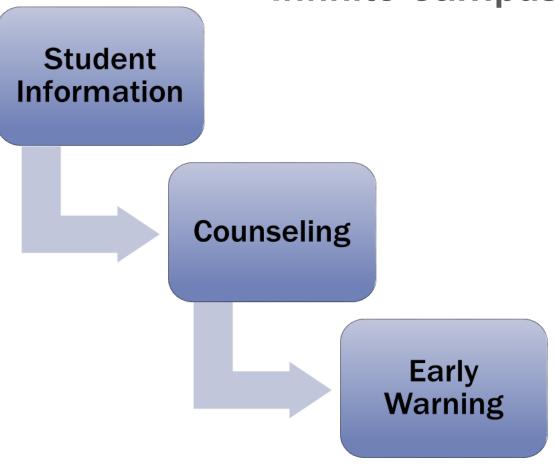
Will identify highestrisk and protectivefactors on dashboard

Include students in early grades



How to Get to the Early Warning Tool

Infinite Campus Path



Note: All users need at least R(ead) tool rights to access the Early Warning screen & generate reports

Which Tool Should I Use?



If you want specific data points around class failure, suspensions, and attendance and/or

If you are at the elementary or middle level

...use the Persistence to Graduation Tool

- If you are in high school
- Want to use a more sensitive tool with strong predictive power ...use the Early Warning Tool

...and refer to data in the PtG report

Careful with Comparisons!



Many of the same students will appear on both reports, but the RISK score and the GRAD score will not be comparable as they are calculated differently.

Component	Early Warning	Persistence to Graduation
Function	Uses statistical modeling to measure a student's dropout risk using historic data that is consistent regardless of environment and improves over time by learning from more data	Assigns every student a risk value score based on selected research-based indicators
Key Indicator	GRAD Score (Higher score is good)	Risk Value Score (Higher score is bad)
Available for	High School students *Lower grades to be added	Elementary, Middle & High School Students
User Friendly	(1) Graphic Display of student GRAD score compared to all peers and (2) Student lists you can sort with all key indicators	Two output options (PDF and CSV)

	Early Warning	Persistence to Graduation
Data is Updated	Monthly-based on any changes	Daily – based on any changes
Score Range	50 -150 (Low Score = at risk to drop out)	0-24 (Low Score = not at risk to drop out) per data
Data	Uses over 90 indicators	Data indicators limited to behavior, grades, attendance
IC PATHS	Student Information → Counseling → Early Warning	KY state reporting → KDE Reports → Persistence to Graduation



What will these tools NOT tell us?



CAUTION

- DO NOT rely on these as your only tools!
- Neither tool evaluates graduation credit requirements at this time
- Other information you learn throughout the year that data can't reveal directly
- Don't forget protective factors & strengths!!!





So Now What?

Encourage use:

- Directors of Pupil Personnel (DPPs)
- District dropout prevention personnel
- Principals
- Counselors
- Special education administrators
- Family Resource Youth Service Center Coordinators (FRYSC)
- Teachers
- Behavior/academic coaches



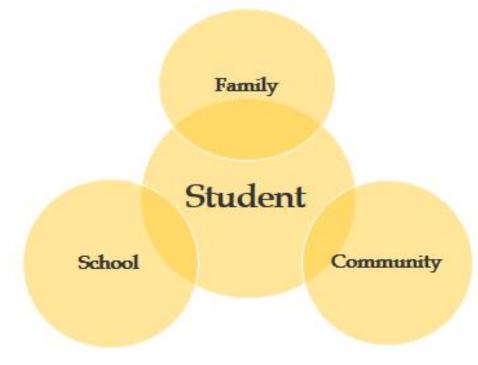
Tools can be used...

- For root cause analysis
- To intervene early on
- To determine appropriate supports and interventions for students who may be off-track for graduation
- To support positive reinforcement for students who are on track



Numerous Dropout Prevention Strategies, Programs, Approaches

- Interventions can occur in multiple areas:
 - Academic, social-emotional, basic needs, engagement, family, peers
- And multiple levels
 Individual, group/peer,
 school, family, community



15 Identified Effective Strategies

Foundational Strategies

- School community collaboration
- Safe learning environments
- Systemic approach

Early Intervention

- Family engagement
- Early literacy
- Early childhood education

Basic Core Strategies

- Mentoring
- Servicelearning
- Alternative programs
- After school
 & out of
 school
 opportunities

Improving Instruction

- Active learning
- Professional development
- Individual instruction
- Career & tech education
- Technology

Using data from watch lists (and other sources)

...Designate all students into a tier

...Use school wide, grade level teams, etc.

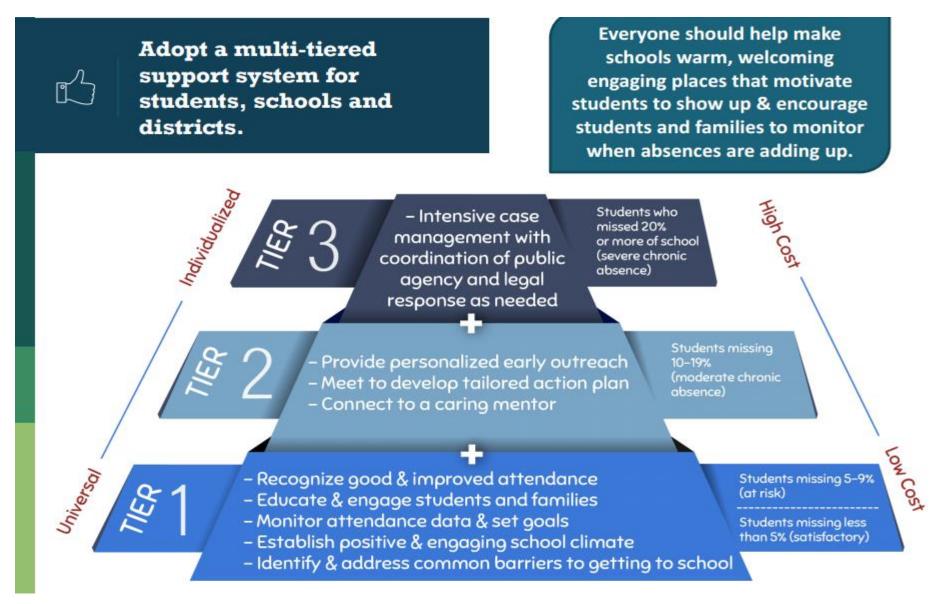
5% Intensive
15%
Targeted

Example		
300 Students		
Intensive Efforts	15	
Targeted Efforts	45	
Prevention Efforts	240	
	All benefit	

80% Prevention

Social-Emotional Culture/Climate

Example of Tiered Approach for Students Struggling with Chronic Absenteeism

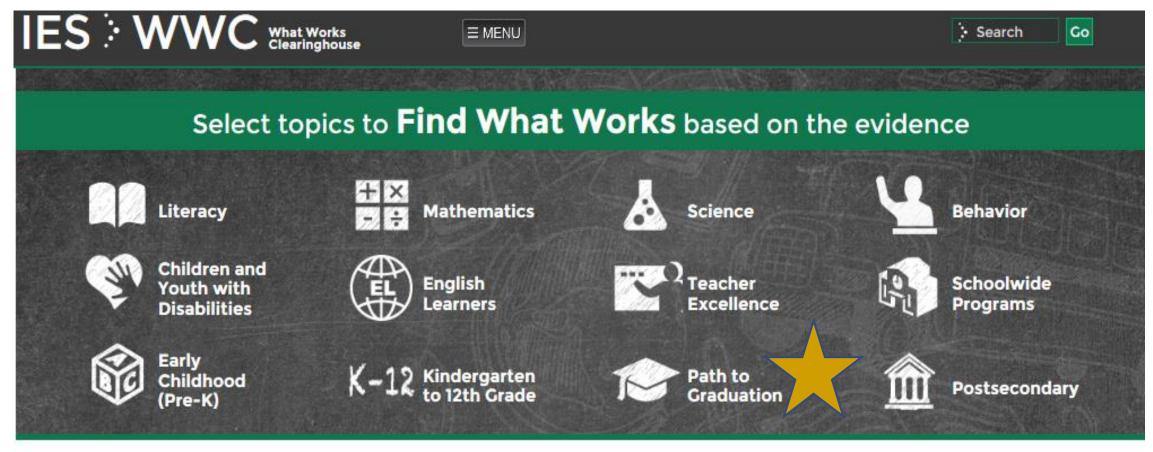


Source: Attendance Works 11/1/16 Webinar

So...WHAT WORKS



The What Works Clearinghouse



What Works Clearing House-Recommendations for Dropout Prevention: Practice Guide

- 1. Use data systems to identify students at risk of dropout (and monitor them)
- 2. Assign an adult advocate to students at risk of dropout
- 3. Provide targeted academic support and enrichment
- 4. Implement programs to improve behavior and social-emotional skills
- 5. Personalize the learning environment (school-wide)



Students Mentoring Students (CO)

Key Resources

National Dropout Prevention Center:

http://dropoutprevention.org/



Regional Educational Laboratory

http://www.relmidwest.org/newsroom/dropout-prevention-resources-and-events

Association for Career & Technical Education

https://www.acteonline.org/general.aspx?id=795#.W

DNSz4czV9M



Dropout Prevention Resources and Events

KDE's Persistence to Graduation webpage for answers to questions and additional resources:

http://education.ky.gov/educational/int/Pages/PersistenceToGraduation.aspx

Explore Live Survey & Interactive Assessment in the Classroom: FREE



Engage ALL students in critical thinking

Give all students the chance to participate and engage in learning without feeling self-conscious.

"The kids love it. I thought of it as a good data-collection tool, but my high school kids think it's a game."

- Susan Clark Russo, Math teacher



Since the Early Warning tool is in the process of development...

...and/or if you have insights into improvements for the PtG tool

we would love to get your

